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SEQUENCE LISTING

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Kitamura, Toshio

<120> MAST CELL-DERIVED MEMBRANE PROTEINS

<130> C1-A0229Y1P

<140> PCT/JP03/13921

<141> 2003-10-30

<150> JP 2002-316680

<151> 2002-10-30

<150> JP 2002-354165

<151> 2002-12-05

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<222> (148).. (1104)

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cctgccggtg acccgtgtgt gggagaa atg acc caa ctg gcc tca gct gtg tgg 174

Met Thr Gln Leu Ala Ser Ala Val Trp

1

5

ctg ccc acg ctg ttg ctg ctg ctg ctg ctt ttt tgg ctt cca ggc tgt 222

Leu Pro Thr Leu Leu Leu Leu Leu Leu Phe Trp Leu Pro Gly Cys

10

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20

25

gtc cct ctg cat ggt ccc agc acc atg aca gga agt gtg ggt caa tcc 270

Val Pro Leu His Gly Pro Ser Thr Met Thr Gly Ser Val Gly Gln Ser

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ctg agt gtg tcg tgt cag tat gag gag aaa ttt aag act aag gac aaa 318

Leu Ser Val Ser Cys Gln Tyr Glu Glu Lys Phe Lys Thr Lys Asp Lys

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tac tgg tgc aga ggg tca ctt aag gta ctg tgc aaa gat att gtc aag 366
 Tyr Trp Cys Arg Gly Ser Leu Lys Val Leu Cys Lys Asp Ile Val Lys
 60 65 70

acc agc agc tca gaa gaa gct agg agt ggc aga gtg acc atc agg gac 414
 Thr Ser Ser Ser Glu Glu Ala Arg Ser Gly Arg Val Thr Ile Arg Asp
 75 80 85

cat cca gac aac ctc acc ttc aca gtg acc tat gag agc ctc acc ctg 462
 His Pro Asp Asn Leu Thr Phe Thr Val Thr Tyr Glu Ser Leu Thr Leu
 90 95 100 105

gat gat gca gac acc tac atg tgt gcg gtg gat ata cca ttt ttc aat 510
 Asp Asp Ala Asp Thr Tyr Met Cys Ala Val Asp Ile Pro Phe Phe Asn
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gcc ccc ttg ggg ctc gat aag tac ttc aag att gaa ttg tct gtg gtt 558
 Ala Pro Leu Gly Leu Asp Lys Tyr Phe Lys Ile Glu Leu Ser Val Val
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cca agt gag gac cca gtt tca tct cca gga cca aca cta gag aca cct 606
 Pro Ser Glu Asp Pro Val Ser Ser Pro Gly Pro Thr Leu Glu Thr Pro
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gtg gtg tcc acc agt ctg cct acc aag ggt ccc gcc cta gga tcc aac 654

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Val Val Ser Thr Ser Leu Pro Thr Lys Gly Pro Ala Leu Gly Ser Asn

155

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Thr Glu Asp Arg Arg Glu His Asp Tyr Ser Gln Gly Leu Arg Leu Pro

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175

180

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gcg ctg ttg tct gtg tta gct ctc ctg ctg ttt ctg ttg gtg ggg aca 750

Ala Leu Leu Ser Val Leu Ala Leu Leu Leu Phe Leu Leu Val Gly Thr

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Ser Leu Leu Ala Trp Arg Met Phe Gln Lys Arg Leu Val Lys Ala Asp

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agg cat cca gag ctg tcc cag aac ctc aga cag gct tct gag cag aat 846

Arg His Pro Glu Leu Ser Gln Asn Leu Arg Gln Ala Ser Glu Gln Asn

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gag tgc cag tat gtg aat ttg cag ctg cac acg tgg tct ctg agg gaa 894

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gag ccg gtg cta cca agt cag gta gaa gtg gtg gaa tat agc aca ttg 942

Glu Pro Val Leu Pro Ser Gln Val Glu Val Val Glu Tyr Ser Thr Leu

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Ala Leu Pro Gln Glu Glu Leu His Tyr Ser Ser Val Ala Phe Asn Ser	
270 275 280	
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Gln Arg Gln Asp Ser His Ala Asn Gly Asp Ser Leu His Gln Pro Gln	
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Asp Gln Lys Ala Glu Tyr Ser Glu Ile Gln Lys Pro Arg Lys Gly Leu	
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Ser Asp Leu Tyr Leu	
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Thr Met Thr Gly Ser Val Gly Gln Ser Leu Ser Val Ser Cys Gln Tyr

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Glu Glu Lys Phe Lys Thr Lys Asp Lys Tyr Trp Cys Arg Gly Ser Leu

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Lys Val Leu Cys Lys Asp Ile Val Lys Thr Ser Ser Ser Glu Glu Ala

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Arg Ser Gly Arg Val Thr Ile Arg Asp His Pro Asp Asn Leu Thr Phe

85

90

95

Thr Val Thr Tyr Glu Ser Leu Thr Leu Asp Asp Ala Asp Thr Tyr Met

100

105

110

Cys Ala Val Asp Ile Pro Phe Phe Asn Ala Pro Leu Gly Leu Asp Lys

115

120

125

Tyr Phe Lys Ile Glu Leu Ser Val Val Pro Ser Glu Asp Pro Val Ser

130

135

140

Ser Pro Gly Pro Thr Leu Glu Thr Pro Val Val Ser Thr Ser Leu Pro

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Thr Lys Gly Pro Ala Leu Gly Ser Asn Thr Glu Asp Arg Arg Glu His

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Asp Tyr Ser Gln Gly Leu Arg Leu Pro Ala Leu Leu Ser Val Leu Ala
180 185 190

Leu Leu Leu Phe Leu Leu Val Gly Thr Ser Leu Leu Ala Trp Arg Met
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Phe Gln Lys Arg Leu Val Lys Ala Asp Arg His Pro Glu Leu Ser Gln
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Asn Leu Arg Gln Ala Ser Glu Gln Asn Glu Cys Gln Tyr Val Asn Leu
225 230 235 240

Gln Leu His Thr Trp Ser Leu Arg Glu Glu Pro Val Leu Pro Ser Gln
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Val Glu Val Val Glu Tyr Ser Thr Leu Ala Leu Pro Gln Glu Glu Leu
260 265 270

His Tyr Ser Ser Val Ala Phe Asn Ser Gln Arg Gln Asp Ser His Ala
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Asn Gly Asp Ser Leu His Gln Pro Gln Asp Gln Lys Ala Glu Tyr Ser
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tct cag gtc cca ggc tgt gtc cca ctg cat ggc ccc agc act atc aca 96
Ser Gln Val Pro Gly Cys Val Pro Leu His Gly Pro Ser Thr Ile Thr
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ggc gct gtt ggg gaa tcg ctc agt gtg tca tgt caa tac gag gag aaa 144
Gly Ala Val Gly Glu Ser Leu Ser Val Ser Cys Gln Tyr Glu Glu Lys
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ttc aag act aag gac aaa ttc tgg tgc aga ggg tca ctg aag gta ctc 192

Phe Lys Thr Lys Asp Lys Phe Trp Cys Arg Gly Ser Leu Lys Val Leu

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tgt aaa gat att gtc aag acc agc agc tca gaa gaa gtt agg aat ggc 240

Cys Lys Asp Ile Val Lys Thr Ser Ser Ser Glu Glu Val Arg Asn Gly

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cga gtg acc atc agg gac cat cca gac aac ctc acc ttc aca gtg acc 288

Arg Val Thr Ile Arg Asp His Pro Asp Asn Leu Thr Phe Thr Val Thr

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tat gag agc ctc acc ctg gag gat gca gac acc tac atg tgt gcg gtg 336

Tyr Glu Ser Leu Thr Leu Glu Asp Ala Asp Thr Tyr Met Cys Ala Val

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Asp Ile Ser Leu Phe Asp Gly Ser Leu Gly Phe Asp Lys Tyr Phe Lys

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att gag ttg tct gtg gtt cca agt gag gac cca gtc aca ggt tcg agc 432

Ile Glu Leu Ser Val Val Pro Ser Glu Asp Pro Val Thr Gly Ser Ser

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ctt gag agt ggt aga gat atc ctg gaa tcc ccc aca tcc tca gtt ggg 480

Leu Glu Ser Gly Arg Asp Ile Leu Glu Ser Pro Thr Ser Ser Val Gly

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cac act cat ccc agt gtg acc aca gat gac aca att cct gct ccc tgc 528

His Thr His Pro Ser Val Thr Thr Asp Asp Thr Ile Pro Ala Pro Cys

165

170

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cct cag cct cgg tct ctt cgg agc agc ctc tac ttc tgg gtc ctg gtg 576

Pro Gln Pro Arg Ser Leu Arg Ser Ser Leu Tyr Phe Trp Val Leu Val

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tct ctg aag ttg ttc ctg ttc ctg agc atg ctt ggt gct gtc ctc tgg 624

Ser Leu Lys Leu Phe Leu Phe Leu Ser Met Leu Gly Ala Val Leu Trp

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Val Asn Arg Pro Gln Arg Cys Ser Gly Gly Ser Ser Thr Gln Pro Cys

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Tyr Glu Asn Gln

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Ser Gln Val Pro Gly Cys Val Pro Leu His Gly Pro Ser Thr Ile Thr

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Gly Ala Val Gly Glu Ser Leu Ser Val Ser Cys Gln Tyr Glu Glu Lys

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Phe Lys Thr Lys Asp Lys Phe Trp Cys Arg Gly Ser Leu Lys Val Leu

50

55

60

Cys Lys Asp Ile Val Lys Thr Ser Ser Ser Glu Glu Val Arg Asn Gly

65

70

75

80

Arg Val Thr Ile Arg Asp His Pro Asp Asn Leu Thr Phe Thr Val Thr

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90

95

Tyr Glu Ser Leu Thr Leu Glu Asp Ala Asp Thr Tyr Met Cys Ala Val

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110

Asp Ile Ser Leu Phe Asp Gly Ser Leu Gly Phe Asp Lys Tyr Phe Lys

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Ile Glu Leu Ser Val Val Pro Ser Glu Asp Pro Val Thr Gly Ser Ser

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Leu Glu Ser Gly Arg Asp Ile Leu Glu Ser Pro Thr Ser Ser Val Gly

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His Thr His Pro Ser Val Thr Thr Asp Asp Thr Ile Pro Ala Pro Cys

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170

175

Pro Gln Pro Arg Ser Leu Arg Ser Ser Leu Tyr Phe Trp Val Leu Val

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Ser Leu Lys Leu Phe Leu Phe Leu Ser Met Leu Gly Ala Val Leu Trp

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Tyr Glu Asn Gln

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